Joint Small Arms Coordinating Group (JSACG)
Small Arms Item Unique Identification Update

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Background

- OSD funded PM SW Small Arms IUID Marking Pilot
- Phase I: May 2004 – Sep 2005
  - Established IPT which included other services
  - Feasibility study
    - Investigated and identified current and future IUID marking technologies
    - Selected M9 pistol and M240 machine gun based on metal composition and multi-service use

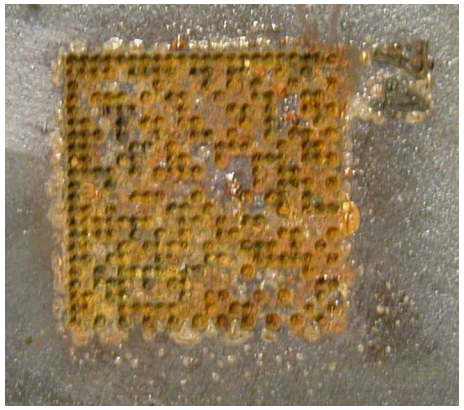
Background

- Phase II : Marking of M9 and M240 scrap receivers at ANAD by contractor
- Qualification testing performed at ARDEC
- Testing consisted of standard environmental tests
  - Blowing Sand
  - Hot/Cold/Ice
  - Salt/Fog

Background

- Marks evaluated before and after tests for damage and readability
- Adhesive label most reliable and readable after exposure to environmental tests
- Follow-on testing conducted on adhesive label with clear coat and several metal tags

After Salt/Fog Testing (M240)

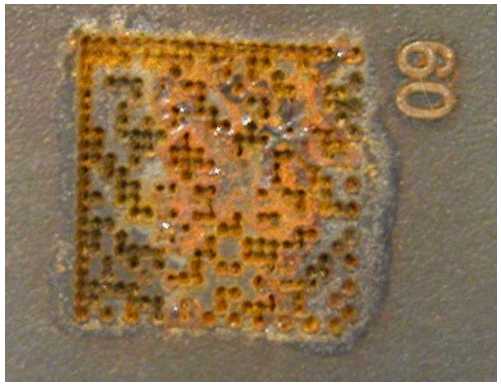


M240-74A deep laser,
Ahyde II w/clear coat

M240-41 laser etch
w/clear coat, Ahyde II

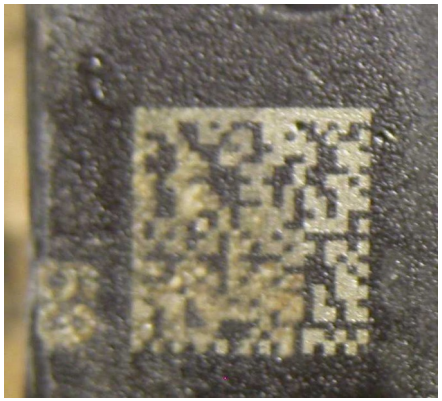
M240-2A
DATALASEPaint
w/clear coat, Ahyde II

M240-49 laser etch
w/clear coat, Ahyde II

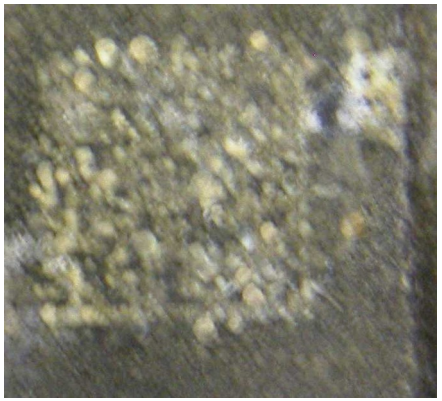


M240-60 deep laser
w/clear coat (Krylon)

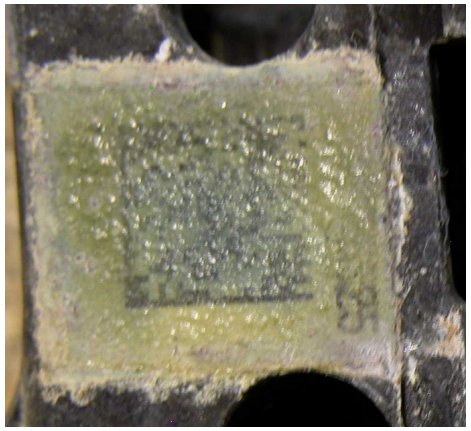
After Salt/Fog Testing (M9)



M9 9-53 laser etch w/clear coat, Aluma Hyde II



M9 9-38 laser etch w/o coating

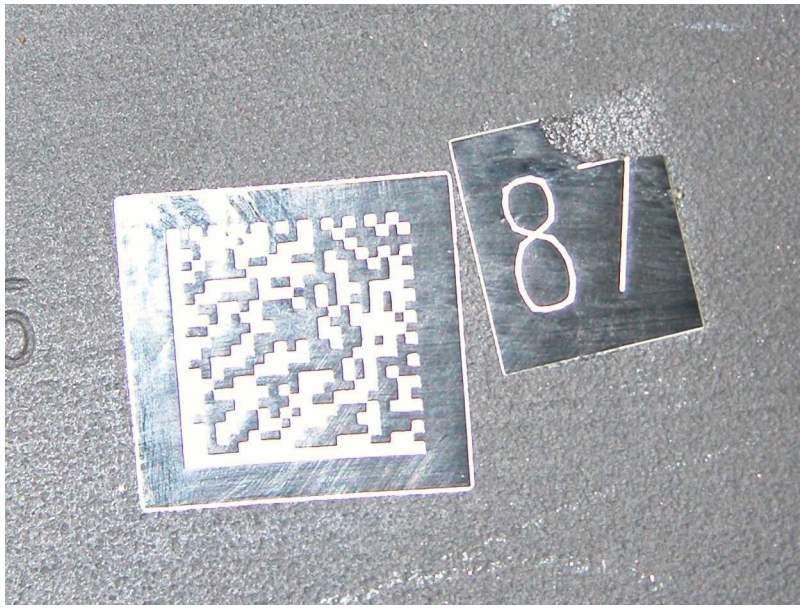


M9 9-25 Datalase paint, Aluma Hyde II w/clear coat

M9 9-45 laser etch w/clear coat (Evershield)

TESA Tape

M9



M240

Develop and Field Current and Future Small Arms for the Army

Background

- Marks evaluated before and after tests for damage and readability
- Adhesive label most reliable and readable after exposure to environmental tests
- Some of our weapon vendors had experience with metal tags
- IPT requested follow-on testing conducted on adhesive label with clear coat and several metal tags to determine if improved durability

Results

- Adhesive label with clear coat and metal tags met requirements
- Mark placed on receivers to facilitate reading weapons in arms room racks
- Phase II of OSD Small Arms Marking Pilot completed May 2006
- PM SW NDIA Briefing May 2006 indicated this and summarized testing performed

Implementation

- PM SW funded program at Anniston Army Depot Sep 06 to mark M240B Machine Guns as part of M240-M240B conversion program
- ANAD owns the equipment.
- Potential for use on other small arms after end of M240 conversion program
- Integrated Marking Cart solution from A2B Tracking Solutions and registry software installed Dec 06
- IUID marking capability expected to be operational by end of Dec 06

Production Contracts

- All PM SW small arms weapons production contracts modified to include IUID requirement
- Receiver contracts modified to include IUID requirement
- M240B, M240H, M249 and MK19 Weapons being delivered to the government with IUID marks using metal tags
- M4 Carbine planning to use vinyl adhesive label

Path Forward

- After initial implementation on M240B conversion line rollout can commence on additional small arms overhaul lines at ANAD

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